

NAME: \_\_\_\_\_



## **PLENARY**

**SEPTEMBER 27, 2017**

### **2017 PROGRAM**

**Time:** 8:30 a.m. – 5:00 p.m.

**Location:** Wildland Fire Training and  
Conference Center

**Address:** 3237 Peacekeeper Way  
McClellan, CA 95652



**UPDATE 2018**  
**CALIFORNIA WATER PLAN**  
PRELIMINARY DRAFT



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## SESSIONS AT A GLANCE

Main Entrance	<i>Registration</i>	<i>Breaks</i>
	8:30 a.m.	10:45 a.m., 2:15 p.m., 3:30 p.m.

### *Morning General Session - 9:00 a.m. - 10:45 a.m.*

Thirty Mile	<i>Convening and Introductions</i> – <b>Kamyar Guivetchi</b> , Manager, Statewide Integrated Water Management and <b>Paul Massera</b> , Manager, Strategic Water Planning, California Department of Water Resources (DWR), <b>Lisa Beutler</b> , Executive Facilitator, Stantec
	<i>Recognizing Change</i> – Interactive Discussion, <b>All</b>

### *Breakout Sessions - 10:55 a.m. - Noon*

Thirty Mile	<p><i>Regulatory Alignment for Better Regional Outcomes</i></p> <p><b>Moderator:</b> <b>Lynn Rodriguez</b>, Watersheds Coalition of Ventura County and Co-Chair of IRWM Roundtable of Regions</p> <p><b>Panel:</b> <b>Steven Moore</b>, Vice Chair, State Water Resources Control Board, <b>Junko Hoshi</b>, Co-lead: California State Wildlife Action Plan, California Department of Fish and Wildlife, <b>Vince Gin</b>, Deputy Operating Officer for Watersheds Stewardship and Planning, Santa Clara Valley Water District, <b>Karen Buhr</b>, Executive Director, California Resource Conservation Districts, <b>Martha Davis</b>, Executive Manager, Policy Development, Inland Empire Utilities Agency, <b>Carl Morrison</b>, Bay Area Flood Protection Agencies Association and President, Morrison and Associates, Inc.</p>
Hamm	<i>Water Supply and Balance Modernization</i> – <b>John Helly</b> , UC San Diego
Cerro Grande	<p><i>Where Else is the Money?</i></p> <p><b>Moderator:</b> <b>Elizabeth Patterson</b>, Senior Environmental Scientist, DWR</p> <p><b>Panel:</b> <b>Nicholas Pinter</b>, UC Davis Center for Watershed Sciences, <b>Fred Silva</b>, Senior Fiscal Policy Advisor, California Forward, <b>Allan Highstreet</b>, Vice President, West Water Regional Project Delivery Manager, CH2M Hill, <b>Susan Bransen</b>, Executive Director, California Transportation Commission</p>

REGISTER HERE: <https://www.surveymonkey.com/r/RSVP09-27-17>

***Working Lunch and Presentation - Noon to 1:10 p.m.***

<b>Cafeteria</b>	<b><i>Buffet Lunch</i></b>
<b>Thirty Mile</b>	<b><i>Luncheon Speaker: Grant Davis, Director, DWR</i></b> <b><i>Update 2018 Poster Session – Water Plan Team, All</i></b>

***Breakout Sessions - 1:10 - 2:15 p.m.***

<b>Thirty Mile</b>	<p><b><i>Building the Next Update (2023) of the Water Plan from the Local/Regional Level Up</i></b></p> <p><b>Moderator: Tracy Hemmeter</b>, Senior Project Manager, Santa Clara Valley Water District</p> <p><b>Panel: Mark Stadler</b>, San Diego IRWM Program Manager, San Diego County Water Agency, <b>Colin Bailey</b>, Executive Director, Environmental Justice Coalition for Water, <b>Sherri Norris</b>, Executive Director, California Indian Environmental Affairs, <b>Lewis Moeller</b>, Project Manager, California Water Plan, DWR, <b>Brad Sherwood</b>, Community and Government Affairs Manager, Sonoma County Water Agency, <b>Lynn Rodriguez</b>, Watersheds Coalition of Ventura County and Co-Chair of IRWM Roundtable of Regions</p>
<b>Hamm</b>	<b><i>Quantifying Sustainability (Update 2018 Water Budget) – Abdul Khan</i></b> , Supervising Engineer, DWR, <b>Paul Shipman</b> , Water Resources Engineer, DWR
<b>Mann Gulch</b>	<b><i>Tribal Water Summit Planning Committee</i></b> (Members)
<b>Cerro Grande</b>	<p><b><i>Water Markets</i></b></p> <p><b>Moderator: Megan Fidell</b>, Water Resources Engineer, DWR</p> <p><b>Panel: Nell Green Nylen</b>, Senior Research Fellow, Wheeler Water Institute, Center for Law, Energy and the Environment, Berkeley Law, <b>Nicole Kuenzi</b>, Staff Counsel, Water Rights, State Water Resources Control Board, <b>Mike Young</b>, Research Chair in Water and Environmental Policy, Centre for Global Food and Resources, University of Adelaide (Australia)</p>

**SPECIAL NOTICE:** The Plenary is being held at a federal facility, the Wildland Fire Training and Conference Center (WFTC). The WFTC was created to implement National Fire Plan direction for the accelerated development and training of wildland firefighters and is home to the Wildland Firefighter Apprenticeship Program. **The meeting rooms are named after firefighting units that have lost members fighting fires. To honor their sacrifice, HATS ARE NOT PERMITTED in the facility unless it is for a religious, cultural, or medical reason. If you need to wear a hat,** please direct questions to [cwpcom@water.ca.gov](mailto:cwpcom@water.ca.gov) as soon as possible but at least two business days prior to the scheduled meeting.

*Breakout Sessions - 2:30 - 3:30 p.m.*

<b>Thirty Mile</b>	<p><i>Enhancing the Connection between IRWM and SGMA</i></p> <p><b>Moderator: Dave Orth</b>, Member, California Water Commission and Principal, New Current Water and Land, LLC</p> <p><b>Panel: Eric Osterling</b>, Manager, Water Resources, Kings River Conservation District, <b>John Woodling</b>, Executive Director, Regional Water Authority, <b>Lance Eckhart</b>, Director, Basin Management and Resource Planning, Mojave Water Agency, <b>Courtney Howard</b>, Division Manager, Water Resources, San Luis Obispo County, <b>John Ricker</b>, Water Resources Program Coordinator, Santa Cruz County</p>
<b>Hamm</b>	<i>Land Use Visualization</i> – <b>Wyatt Arnold</b> , Water Resources Engineer, DWR
<b>Mann Gulch</b>	<i>Tribal Water Summit Planning Committee</i> (Members)
<b>Cerro Grande</b>	<p><i>Water – What is the Role of Fees, Taxes, or Other Levies?</i></p> <p><b>Moderator: Lisa Beutler</b>, Facilitator, Stantec</p> <p><b>Opening Comments: Paul Massera</b>, DWR</p> <p><b>Panel: Rachel Ehlers</b>, Principal Fiscal and Policy Analyst, California Legislative Analyst's Office, <b>Dave Bolland</b>, Director, State Regulatory Relations, Association of California Water Agencies</p>

*Breakout Sessions - 3:40 - 4:40 p.m.*

<b>Thirty Mile</b>	<i>Water Plan Document Overview and Poster Session</i> – Interactive Discussion
<b>Hamm</b>	<i>Open and Transparent Water Data</i> – <b>Chris McCready</b> , Principal Engineer, DWR, <b>Matthew Correa</b> , Senior Water Resources Engineer, DWR
<b>Mann Gulch</b>	<i>Environmental Justice/Disadvantaged Community Caucus</i>
<b>Cerro Grande</b>	<p><i>Vital Statistics (The Water Plan Indicators) and Pilot Projects</i></p> <p><b>Thomas Filler</b>, Program Manager, DWR, <b>Charles Gardiner</b>, Principal Facilitator, Pilot Project, California Forward</p> <ul style="list-style-type: none"> <li>• Interactive Discussion, <b>All</b></li> </ul>

*General Session - 4:50 p.m. to Close*

<b>Thirty Mile</b>	<p><i>Closing Comments, Next Steps</i> – <b>Kamyar Guivetchi</b>, <b>Paul Massera</b>, <b>Lisa Beutler</b>, <b>All</b></p> <p><i>5:00 p.m. Adjourn</i></p>
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## SESSIONS BY TRACK

Track	Transactional	Big Picture	Advancing Regional Water Management	Where's the Money?	Putting Data to Work
8:30 a.m.	Registration				
9:00 a.m.		Opening Session			
9:25 a.m.		Recognizing Change			
10:45 a.m.	Break				
10:55 a.m.			Regulatory Alignment for Better Regional Outcomes*	Where Else is the Money?	Water Supply and Balance Modernization
NOON	Lunch	<i>Luncheon Speaker:</i> <b>Grant Davis,</b> Director, DWR Poster Session			
1:10 p.m.	Tribal Summit Planning Committee (Members)		Building the Next (2023) Update of the Water Plan from the Local/Regional Level Up*	Water Markets	Quantifying Sustainability (Update 2018 Water Budget)
2:15 p.m.	Break				
2:30 p.m.	Tribal Summit Planning Committee (Members)		Enhancing the Connection between IRWM and SGMA*	Water – What is the Role of Fees, Taxes, or Other Levies?	Land Use Visualization
3:30 p.m.	Break				
3:40 p.m.	EJ/DAC Caucus	Continuation of Document Overview and Poster Session	Vital Statistics and Pilot Project		Open and Transparent Water Data
4:50 p.m.	Closing Remarks, 5:00 p.m. Adjourn				

\*In partnership with the IRWM Roundtable of Regions

# WATER PLAN BACKGROUND INFORMATION

## *Water Plan Update 2018 – Relevant Today and Tomorrow*

- **Sustainability** — California's water resources must be managed for a variety of societal values, and in a manner that does not jeopardize future generation's ability to survive and thrive.
- **Infrastructure** — There is a renewed focus on investment in rehabilitation and modernization of aging and deficient water- and flood-related infrastructure.
- **Governance and Alignment** — Alignment of governance at the appropriate scale is critical for achieving sustainable water resources management.
- **Regulatory** — Regulations should be tied to watershed management efforts, including planning and investment, to enhance ecosystem function and viability.
- **Capacity Building** — There is a need for greater leadership and assistance to provide water managers resources, knowledge, skills, and tools needed for data-driven decision-making.
- **Funding** — New and innovative funding sources must be developed for capital projects; ongoing funding needs, such as planning, operations, and maintenance of the existing system; and support for regional water management.



**Sustainability** is not an end point, but an ongoing, resilient, and dynamic balance among societal values: public health and safety, a healthy economy, ecosystem vitality, and opportunities for enriching experiences.

**Sustainability should become the goal of every Californian because we all benefit from the state's natural resources.**







## *CWP Update 2018 Overview*

<b>Chapter 1</b>	<b>Chapter 2</b>	<b>Chapter 3</b>	<b>Chapter 4</b>	<b>Chapter 5</b>
<b>Envisioning Sustainable Water Resources Management</b>	<b>Sustainability Outlook</b>	<b>Recommended Actions to Support Long-Term Sustainability</b>	<b>Funding Plan</b>	<b>Implementation Plan</b>
<ul style="list-style-type: none"> <li>• Establishes a sustainability vision and develops shared intent around sustainable water resources management. Defines sustainability around four societal values: “Sustainability is an ongoing, resilient, and dynamic balance among societal values: public health and safety, healthy economy, ecosystem vitality, and opportunities for enriching experiences.”</li> <li>• Describes water management activities that support societal values through defined intended outcomes.</li> <li>• Describes DWR &amp; State government’s role and commitment.</li> </ul>	<ul style="list-style-type: none"> <li>• Summarizes water resources management assessments with an emphasis on sustainability.</li> <li>• Evaluates water management effectiveness and identifies gaps and needed work.</li> <li>• Uses specific indicators.</li> <li>• As part of assessment, describes challenges and potential disrupters for sustainably managing water in California.</li> </ul>	<ul style="list-style-type: none"> <li>• Focuses on statewide behaviors and enabling conditions that support sustainable water resources management.</li> <li>• Recommends short-term actions to address urgent gaps and needs.</li> <li>• Sets the foundation for sustainable water resources management.</li> <li>• Includes an estimate of the cost and time to implement the recommended actions (which will inform the Implementation Plan)</li> </ul>	<ul style="list-style-type: none"> <li>• Assesses, identifies, and recommends State funding/revenue sources for water management activities.</li> </ul>	<ul style="list-style-type: none"> <li>• Presents a recommended schedule of implementation based on recommended actions (Chapter 3) and identified funding mechanisms (Chapter 4).</li> <li>• Includes progress-tracking methods and identifies potential roles and responsibilities for successful implementation.</li> </ul>

# The **Sustainability Outlook** is a tool for looking at water management sustainability through the lens of the State's four societal values:

- **Target** the water outcomes we want to achieve
- **Assess** progress using indicators supported by real data
- **Recommend** actions to address areas that need improvement
- **Adjust** actions that are not working as intended



*Public Health  
& Safety*



*Ecosystem  
Vitality*



*Thriving  
Economy*



*Enriching  
Experiences*



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## *Russian River Watershed Pilot*

### **Moving Toward a Watershed-Based Planning, Regulation, Governance, and Finance System**

In cooperation with the Department of Water Resources and local stakeholders, California Forward and the Pacific Institute are developing a management framework for the Russian River watershed. This pilot effort is intended to contribute to the CA Water Plan Update 2018. The effort will explore, and in some cases pilot, watershed-based planning, regulation, governance, and finance innovations as framed up in various DWR planning initiatives (e.g., CA Water Plan, Statewide Flood Planning, and Building Capacity for Regional Sustainability). The Russian River watershed was selected as the preferred location due to established relationships and a demonstrated willingness to partner and innovate. The activities and timeline are designed to integrate with and contribute to related evaluations and policy development, including the California Economic Summit, Sonoma County Sustainability Planning, the Pacific Institute Multi-Benefit Investment Strategies project and Water Plan Update 2018.

**Pilot River Basin Planning, Governance, and Regulatory Framework** – Working from water resource-related plans and with State and federal agency managers and leaders in the Russian River watershed<sup>1</sup>, the project will develop a framework to define sustainability outcomes and metrics, align regulatory processes to achieve sustainable outcomes, improve governance and implementation efficiency, and identify funding and finance options and capacity.

As a first step, the project is developing an example watershed-based sustainability vision and performance management approach. The project will identify common attributes and goals for sustainability within the watershed by collecting, reviewing, and synthesizing the goals and desired outcomes for agencies and organizations in the Russian River watershed. The project is also identifying a conceptual approach to align local/regional sustainability outcomes and State policy outcomes and develop indicators/metrics for sustainability outcomes and for the management and governance to support progress towards watershed goals. This conceptual approach to watershed-based indicators and metrics is the topic for discussion at the Water Plan plenary.

Future steps will identify opportunities for improved regulatory alignment and funding mechanisms at the watershed scale.

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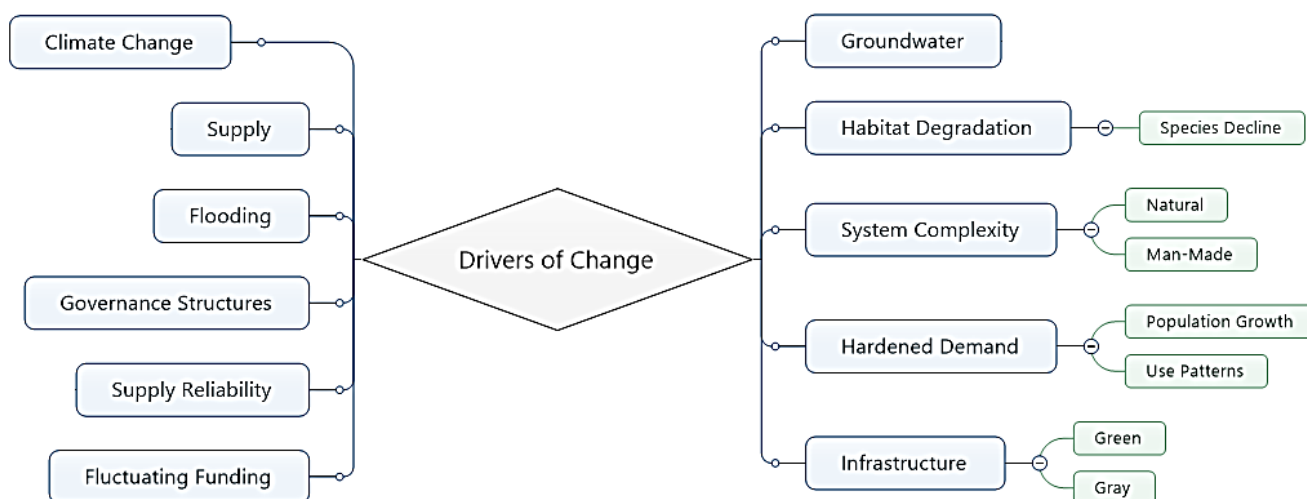
<sup>1</sup> Sonoma County Water Agency, Sonoma County Ag and Open Space District, SGMA implementers & stakeholders, Russian River Watershed Association, North Coast Resource Partnership, and others.

## OPENING SESSION DISCUSSION

Californians have always seized on challenges to drive substantive changes in water resources management. Update 2018 has identified a series of challenges to be addressed in this planning cycle. One significant emphasis in Update 2018 is the need to address these issues systemically. A second area of discussion is the role of State government in addressing the needed changes.

### Part I: Working in your table group:

1. If needed, make adjustments or agumentations to the drivers identified in the graphic below to reflect areas needing water resources management changes.
2. As a group, identify as many as five priorities for **needed changes** to the current water management system to address these drivers in the short-term (5 years). *For example, related to groundwater, a group may offer something related to the Sustainable Groundwater Management Act.*
3. Using a similar graphic to organize your ideas, record the ideas with provided markers and paper on your table.



### Part II: Switch tables:

1. At the appointed time you will be asked to switch tables. Select one person to stay at the table and serve as the table spokesman. The remaining participants should disband to different tables so that they will be with a new group of people.

### Part III: Working in your new table group:

1. The table spokesperson should BRIEFLY share the results of the first group's discussion.
2. Continuing to add to the table graphic, discuss the appropriate role for State government in addressing needed changes for the identified priorities.
3. Select a spokesperson for the full group discussion.

### Part IV: Full group discussion

## BREAKOUT SESSION DESCRIPTIONS

10:55 a.m. – Noon

### *Regulatory Alignment for Better Regional Outcomes (Panel)*

**Moderator:** Lynn Rodriguez, *Watersheds Coalition of Ventura County*. **Panel:** Steven Moore, *State Water Resource Control Board*, Junko Hoshi, *California Department of Fish and Wildlife*, Karen Buhr, *California Resource Conservation Districts*, Vince Gin, *Santa Clara Valley Water District*, Martha Davis, *Inland Empire Utilities Agency*, Carl Morrison, *Bay Area Protection Agencies Association*

**Room:** Thirty Mile

**Description:** This session will be a positive, forward-looking, and solution-oriented discussion of strategies to better integrate and align water related regulatory practices at the regional scale. The panel, consisting of key members of the regulatory and IRWM communities, will be asked to share their insights and ideas about how regulators and the regulated can work together better, and in an integrated manner, to improve regional water management outcomes effectively and efficiently. Information from this session will help DWR and other state agencies determine how to best implement alignment actions identified in the recently released IRWM Stakeholders Perspectives report.

### *Water Supply and Balance Modernization*

**Speaker:** John Helly, *UC San Diego*

**Room:** Hamm

**Description:** This presentation will provide an overview of the Open Water Information Architecture framework and its relevance to the Assembly Bill 1755 and SGMA efforts, as well as its integration with the WaDE (Water Data Exchange) network throughout the west. WaDE is an application of the OWIA approach. The OWIA methodology will be exemplified by its application to the California water balance reporting process in terms of the benefits of automating this very labor-intensive and time-consuming process. Features of this approach in terms of interoperability, traceability and reproducibility will be shown with respect to liberating water resource data for analysis by open-source tools as well as integration with proprietary and non-proprietary geographic information systems.

### *Where Else is the Money? (Panel)*

**Moderator:** Elizabeth Patterson, *DWR*. **Panel:** Nicholas Pinter, *UC Davis*, Fred Silva, *California Forward*, Allan Highstreet, *CH2M Hill*, Susan Bransen, *California Transportation Commission*

**Room:** Cerro Grande

**Description:** As indicated in this and prior Water Plan Updates (and as articulated in Governor Brown's 2014 Water Action Plan, as well as by the Public Policy Institute of California and other thought-leaders), many sectors of water management in California lack the stable and adequate funding needed to achieve resiliency, restoration, and reliability. A more specific finding emerging with Update 2018 is that annual historical funding will not support State actions to meet the level of investment needed for statewide sustainability. California needs funding solutions that leverage opportunities, create stability, and address risks and challenges that are well documented in this and earlier Water Plan Updates. Funding to support statewide sustainability must support:



- Improvements of California's watersheds and the ecosystems they support.
- Ongoing efforts to evaluate, operate, maintain, and rehabilitate infrastructure.
- Planning, regulating, and tracking progress to ensure a sustainable future.

Given the typically inadequate and/or unstable funding in certain water sectors, such as flood management and ecosystem restoration, we have asked a panel of experts to talk about new or novel funding mechanisms and how they could be applied to water management. This discussion will advance funding policy conversations and inform the funding elements of Update 2018, with regard to how California might overcome this foundational challenge to water resources sustainability.

### Noon - 1:10 p.m.

#### *Update 2018 Poster Session*

**Presenters:** Water Plan Team

**Room:** Thirty Mile

### Breakout Sessions - 1:10 - 2:15 p.m.

#### *Building the Next Update (2023) of the Water Plan from the Local/Regional Level Up (Panel)*

**Moderator:** Tracy Hemmeter, *Santa Clara Valley Water District*. **Panel:** Mark Stadler, *San Diego County Water Agency*, Colin Bailey, *Environmental Justice Coalition for Water*, Sherri Norris, *California Indian Environmental Affairs*, Lewis Moeller, *Water Plan Team*, Brad Sherwood, *Sonoma County Water Agency*, Lynn Rodriguez, *Watersheds Coalition of Ventura County*

**Room:** Thirty Mile

**Description:** In this session, panel members will explore how DWR can best engage local and regional stakeholders to build the 2023 update of the California Water Plan from the “bottom up.” Panel members will share ideas about how stakeholders can help DWR synthesize local and regional water management needs and goals at the hydrologic area and statewide scales. The development of the California regional water management atlas will also be discussed.

#### *Quantifying Sustainability (Update 2018 Water Budget)*

**Moderators:** Abdul Khan and Paul Shipman, *DWR*

**Room:** Hamm

**Description:** During this session, Water Budget Dashboard (Dashboard) for the Tulare Lake Hydrologic Region and an approach to multi-cropping for the Central Coast Hydrologic Region will be presented. DWR is developing historical water budgets for all groundwater basins and overlying watersheds in California based on existing models, and available data, reports and studies. The initial work involves two pilot projects in the Tulare Lake and Central Coast hydrologic regions. The Dashboard is developed to share and communicate currently available water budget information to ensure common understanding among interested parties. It provides a visual display of available data

from existing models and from the California Water Plan. The Dashboard contains a number of data analysis tabs showing water budget information for the period of analysis. The water budget information currently included in the Dashboard is for the Tulare Lake Hydrologic Region for the 10-year period of Water Years 2000–2009 with results generated using DWR’s C2VSim model. The approach to multi-cropping for the Central Coast Hydrologic Region involves utilizing data from the California Pesticide Information Portal to distribute rotational crop acres in order to improve crop evapotranspiration estimates from DWR’s Cal-SIMETAW model.

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### ***Tribal Water Summitt Planning Committee (Members)***

**Room:** Mann Gulch

**Description:** Members of the committee will gather to conduct a planning session.

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### ***Water Markets (Panel)***

**Moderator:** Megan Fidell, *DWR*. **Panel:** Nell Green Nylen, *Wheeler Water Institute Center for Law, Energy and the Environment*, Nicole Kuenzi, *State Water Resources Control Board*, Mike Young, *Centre for Global Food and Resources University of Adelaide (Australia)*

**Room:** Cerro Grande

**Description:** During this session the panel will discuss new developments in water markets in California, especially the prospect for using markets as part of groundwater sustainability plans. Topics include what the State can do to support these markets, and the design features that will ensure that markets don’t have unintended consequences.

**2:30 – 3:30 p.m.**

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### ***Enhancing the Connection between IRWM and SGMA (Panel)***

**Moderator:** Dave Orth, *California Water Commission*. **Panel:** Eric Osterling, *Kings River Conservation District*, John Woodling, *Regional Water Authority*, Lance Eckhart, *Mojave Water Agency*, Courtney Howard, *San Luis Obispo County*, John Ricker, *Santa Cruz County*

**Room:** Thirty Mile

**Description:** During this session, panelists will focus on how IRWM plays a key role in the sustainable management of groundwater. Panelists will explore varying experiences and thoughts relating to the implementation of the Sustainable Groundwater Management Act and the relationship with IRWM. DWR will use the information from this session to help identify ways it can better assist IRWM regions and groundwater sustainability agencies.

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***Land Use Visualization*****Moderator:** Wyatt Arnold, *DWR***Room:** Hamm

**Description:** During this session, there will be a demonstration of an innovative land use visualization tool developed by DWR that allows a granular look at California's land use and crop data. We welcome participant feedback on ways to improve the tool.

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***Tribal Water Summitt Planning Committee (Members)*****Room:** Mann Gulch

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***Water – What is the Role of Fees, Taxes, or Other Levies?***

**Moderator:** Lisa Beutler, *Stantec*. **Opening Comments:** Paul Massera, *DWR* **Panel:** Rachel Ehlers, *California Legislative Analyst's Office*, Dave Bolland, *Association of California Water Agencies*,

**Room:** Cerro Grande

**Description:** During this session we will discuss the role of fees, taxes, or other levies in creating a sustainable funding system for California's water management. Topics to be discussed include the public policy considerations related to funding streams not tied to rate structures or direct services, and options for stably funding statewide water resources sustainability.

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**3:40 – 4:40 p.m.**

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***Water Plan Document Overview and Poster Session (Interactive Discussion)*****Room:** Thirty Mile

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***Open and Transparent Water Data*****Moderators:** Chris McCready, *DWR* and Matthew Correa, *DWR***Room:** Hamm

**Description:** During this session, we will review requirements of the Open and Transparent Water Data Act (Assembly Bill 1755, Dodd) and provide updates on State-led implementation efforts and upcoming opportunities for engagement. Participants will discuss and provide feedback on draft strategic plan goals and will have opportunities to recommend actions in support of those goals.

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***Environmental Justice/Disadvantaged Community Caucus (Members)*****Room:** Mann Gulch

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***Vital Statistics (The Water Plan Indicators) and Pilot Project (Interactive Discussion)***

**Moderators:** Thomas Filler, *DWR*, and Charles Gardiner, *California Forward*

**Room:** Cerro Grande

**Description:** Update 2018 presents a major improvement in the way water policy and management priorities can be developed and coordinated at local, regional, and State levels. Using the Sustainability Outlook as its core, it provides a well-organized and consistent approach for managing water resources for sustainability and work to promote shared understanding of opportunities, resource limitations, and management deficiencies, and identify policy priorities.

During this interactive session, the Water Plan Team and California Forward will present the essential elements of the Sustainability Outlook and demonstrate its application at the watershed scale for the Russian River basin. When fully implemented, the Sustainability Outlook will provide the basis for more consistent and comprehensive policy conversations across California's diverse regions and watersheds. It also serves to provide the backdrop, rationale, and urgency behind "Recommended Actions to Support Long-term Sustainability."

**Discussion Questions:**

Round I:

- What indicators do you think are vital (top ten) to assessing water management sustainability?
- Where do you see the nexus with local/regional planning efforts (e.g., IRWM, SGM) to conduct these watershed-scale assessments?
- What questions do you hope the pilots will answer?

Round II:

- How do you see the Sustainability Outlook supporting greater alignment of State agencies, local/regional entities, funding, etc.?
- What other kinds of indicators do we need to address governance, alignment, regulatory effectiveness, etc.?



## WATER PLAN PLENARY 2018 PRESENTER INFORMATION

**Arnold, Wyatt:** Wyatt Arnold joined the California Department of Water Resources (DWR) in 2015. Wyatt spent two years with the Water Supply Evaluations section in DWR's North Central Region Office before recently joining the Sustainable Groundwater Management branch as a water resources engineer. Wyatt has contributed to the improvement of data management and analysis tools that support statewide planning and enable more streamlined access for the public.

**Bailey, Colin:** Colin Bailey is the Executive Director and Managing Attorney of The Environmental Justice Coalition for Water (EJCW). An accomplished social justice attorney, Colin supports EJCW's statewide policy agenda, local and regional programs, and grassroots member organizations. Building upon California's historic adoption of the Human Right to Water policy in 2012, EJCW supports the grassroots effort to implement and enforce the mandate for safe, clean, affordable water for all, statewide. Fun factoid: Colin once got a standing ovation in Lima, Peru, for his Karaoke rendition of Queen's "Bohemian Rhapsody," for which he single-handedly attempted to sing in three-part harmony.

**Beutler, Lisa:** Lisa Beutler specializes in helping organizations and communities make decisions and plan for the future. The executive facilitator of the California Water Plan, and for the Sustainable Groundwater Management Act, she is no stranger to solving wicked problems at massive scales. Lisa spent a career in state government, starting as a state park ranger then eventually serving stints as the undersecretary for corrections, and working in the offices of two governors and a lieutenant governor. She eventually transitioned to California State University, Sacramento where she became the associate director of the Center for Collaborative Policy. Now at Stantec, she focuses on water issues and leads high-profile public policy and public engagement efforts. In addition to being a nationally recognized collaborative policy expert, she is the 2018 American Water Resources Association, president-elect.

**Bolland, David:** David E. Bolland is director of state regulatory relations for the Association of California Water Agencies (ACWA), a statewide organization of nearly 430 public water agencies. David serves as department manager overseeing water resources policy and state regulatory issues, and has special expertise in water resources planning and management, including water conservation and use efficiency, water recycling, and desalination, groundwater, and headwaters and watershed management. He is knowledgeable concerning water quality requirements of the federal Clean Water Act, California Porter-Cologne Water Quality Control Act, and federal and state endangered species acts. Prior to joining ACWA, David was a senior project manager for an environmental consulting firm for nine years. His local government experience also includes periods of service as a land use planner with a Southern California municipality and a Northern California county. David holds a bachelor of science degree in environmental planning and management from the University of California, Davis.

**Buhr, Karen:** Karen Buhr has been leading the California Association of Resource Conservation Districts for seven years and has an excellent knowledge base of California, the state's resource conservation districts (RCDs), and what it takes to get work done. She has facilitated countless projects throughout the state including leading a grass roots capacity building movement that facilitated more than 100 RCD participants to create a vision and set of standards for California RCDs. She has also served on various statewide committees, panels, and targeted efforts for State agencies and partners. In the last few years, Karen has specifically worked to coordinate RCDs and public and private partners around climate change adaptation and mitigation, as well as sustainable agriculture and ranching. In addition to her experience, Karen holds a master of science degree in natural resource science and management from the University of Minnesota, and a bachelor of arts degree in environmental studies from Macalester College in St Paul, Minnesota.

**Correa, Matt:** As a senior water resources engineer, Matt Correa supports statewide data collection, analysis and publication at DWR. Before this role, he contributed to DWR's climate change program and flood



maintenance office. Matt also has private sector experience designing and maintaining municipal water, wastewater and storm water infrastructure. He earned his bachelor of science degree in civil engineering from California Polytechnic State University, San Luis Obispo and master of science degree from California State University, Sacramento.

**Davis, Grant:** Grant Davis was appointed director of the California Department of Water Resources by Governor Edmund G. Brown Jr. in August 2017. Davis has been the general manager of the Sonoma County Water Agency (SCWA) since 2009, where he also served as the assistant general manager from 2007 to 2009. Grant was responsible for SCWA's core functions of maintaining nearly 100 miles of streams and detention basins for flood protection, restoring habitat for three federally listed fish species in the Russian River, delivering drinking water to more than 600,000 residents of Sonoma and Marin counties, and providing wastewater management for 60,000 customers. In cooperation with the U.S. Army Corps of Engineers, he was also responsible for the operation of Lake Mendocino and Coyote Valley Dam, and Lake Sonoma and Warm Springs Dam. Grant was instrumental in implementing a renewable energy portfolio that has resulted in a carbon free water supply and distribution system. Prior to joining the Sonoma County Water Agency, Grant was executive director of The Bay Institute – a science based, nonprofit organization dedicated to protecting the San Francisco Bay Delta watershed and improving water management in California. He was executive director from 1997 to 2007. In addition, Grant has an extensive legislative and policy background working at the local, State and federal levels of government. A graduate of the University of California, Berkeley, Davis received a bachelor of arts degree in political science.

**Davis, Martha:** Martha Davis is the former assistant general manager/executive manager for Policy Development, now retired, at the Inland Empire Utilities Agency (IEUA), a municipal water district serving 830,000 people in the western portion of San Bernardino County. IEUA provides regional sewage treatment services, distributes imported water and recycled water supplies, and provides other utility services for the Chino Basin. Since 2000, Martha has led many of the agency's award-winning conservation planning and green programs, including initiatives promoting water conservation, renewable energy, stormwater capture, and recycled water. She also serves on multiple boards including the California Section of the WaterReuse Association, the Mono Lake Committee, and the Sierra Institute for Community and Environment, where she is president of the board.

**Eckhart, Lance:** Lance Eckhart is the director of basin management and resource planning for the Mojave Water Agency (State Water Contractor) and has been with the agency since 2001. Lance has worked in the public and private sectors during his approximate 20 years of experience in water resources management. Prior to his employment at Mojave Water Agency (MWA), Lance worked for a variety of consulting firms focusing on groundwater remediation and assessment. His responsibilities include leading a team of scientists, engineers, data analysts, technicians and planners to manage the water resources for the approximately 5,000 square mile MWA service area. Recent major works have consisted of the directing the agency's urban water management plan, the integrated regional water management plan, salt and nutrient management plan, groundwater management plans, basin conceptual models and direct input regarding water policies for the region. Lance received his bachelor of science degree in geology, and a master of science degree in environmental science from California State University, Fullerton. He is a licensed professional geologist and certified hydrogeologist in the State of California.

**Ehlers, Rachel:** Rachel Ehlers is a principal fiscal and policy analyst with the Legislative Analyst's Office (LAO). The LAO provides nonpartisan budget and policy advice to the state Legislature. Rachel has worked for the LAO for more than 12 years in a number of policy areas. Her current program assignments are development and maintenance of water systems, flood control, wildlife and conservation, Delta-related programs, and coastal programs. Rachel holds a bachelor's degree from Harvard University.

**Filler, Tom:** Tom Filler is a program manager for DWR's Division of Statewide Integrated Water Management. Tom has 16 years of experience in the regulatory environment working for the State Water Resources Control Board, the State Lands Commission, and DWR, as well as environmental compliance

management experience on large-scale construction projects under multi-jurisdictional oversight. Tom's duties at DWR have included analyzing environmental flow objectives, climate change impacts, and potential climate changed adaption strategies for incorporation into the California Water Plan Update 2009, and development of the 2010 California Drought Contingency Plan. As assistant to the chief of the Division of Statewide Integrated Water Management, Tom helps implementation of tools, plans, policies, actions, and change management to improve coordination/networking among DWR's multi-division Integrated Water Management (IWM) Program, which includes the Divisions of Statewide Integrated Water Management, Integrated Regional Water Management, and Flood Management. Tom is also working to develop the Sustainability Outlook for California Water Plan Update 2018.

**Floyd, Mike:** Mike Floyd's 38-year career in water resources includes positions with DWR's Statewide Water Resources Planning Team, Integrated Regional Water Management Program, Suisun Marsh Program, Delta Levees Special Flood Control Projects Program, and Water Quality Evaluations Program. He also served as the department's staff groundwater hydrology specialist and the well standards specialist. Mike also held positions with the State Water Resource Control Board's Division of Water Rights and Division of Water Quality, preceded by a position with the Central Valley Regional Water Quality Control Board. Prior to working for the State, Mike was a project manager and hydrologist at two nationally-based consulting firms, preceded by employment with the University of Arizona, Department of Hydrology and Water Resources conducting research for the development and evaluation of groundwater models. Mike worked for a geotechnical engineering firm in Santa Barbara, California as a teenager. Mike is a California-Registered professional engineer and has served as a planning commissioner for the City of Dixon, California, and as a member of the city's Wastewater Advisory Committee. Mike enjoys time off with his family and is obsessed with motorcycles.

**Gardiner, Charles:** Charles Gardiner is a program manager, facilitator, and communications consultant with more than 30 years of experience working with government, business, and communities to develop and implement water, natural resources, and infrastructure policies, programs, and projects. He has assisted federal, state, regional, and local agencies develop and implement programs that advance sustainable, integrated management of water supplies, fisheries, levees, groundwater, and climate adaptation. Charles is working for California Forward and the California Economic Summit to advance the One Million Acre-feet Challenge, which seeks to close California's water needs gap by capturing, conserving, and reusing one million acre-feet of water each year for the next 10 years. He is working with leaders across the state to identify and advance policy enhancements in governance, funding, and regulatory alignment that will accelerate necessary actions and investments in sustainable, regional water management. Charles has degrees in chemistry and political science from the University of North Carolina at Chapel Hill.

**Gin, Vincent.** Vincent Gin leads the Watershed Stewardship and Planning Division for the Santa Clara Valley Water District. Vincent received his bachelor of science degree in civil engineering from the University of California, Irvine and is a registered engineer in California. He has more than 20 years of experience in flood control, environmental permitting, water quality, harbor infrastructure, and project delivery. Prior to joining the district, Vincent was the regulatory and policy division manager for Orange County Public Works. In 2010, he received the Government Engineer of Merit Award from the American Society of Civil Engineers' Orange County Branch, and the Outstanding Engineer of Merit Award from the Orange County Engineering Council. Vincent is also an active member in the National Association of Flood and Stormwater Management Agencies.

**Guivetchi, Kamyar:** Kamyar was appointed manager of DWR's Division of Statewide Integrated Water Management in August 2008. During his 39 years with DWR, Kamyar has worked on many technical and planning projects with the North-Central Region Office, Division of Planning, Bay-DeltaOffice, and Division of Environmental Services managing the Suisun Marsh Program. For the past 17 years, Kamyar managed DWR staff work and coordinated the participation of numerous government agencies, Native American tribes, stakeholders, and public to prepare the California Water Plan Updates 2005, 2009, and 2013 using a collaborative and consensus-seeking approach. He chairs the 30-member State Agency Steering Committee for preparing Update 2018, and is the state co-chair of the California Biodiversity Council's Executive Committee.

**Helly, John:** John Helly has a demonstrated record of successful management of technical and scientific teams of developers and system operators for a wide range of military space and civilian scientific programs and projects for more than 30 years. His experience encompasses managing teams of civilian (NASA, contractor) and military personnel (USAF) in procurements of command and control systems for manned spaceflight and classified systems. He has been, and is, responsible for assembling and managing teams of scientists and technicians for global international projects in oceanography and atmospheric science. As laboratory director for Earth and Environmental Science at the San Diego Supercomputer Center, he has been responsible for creating, funding, and executing numerous projects staffed simultaneously using a matrix organizational approach at UCSD spanning multiple institutions, scientific disciplines, personalities, and schedules across multiple funding organizations. As a recognized expert on high-performance computing and communications, he has recently served as a reviewer and advisor to the National Science Foundation for the design and procurement of next-generation HPC resources (NCAR Cheyenne) and future space-based communications systems for the United States research missions in Antarctica.

**Hemmeter, Tracy:** Tracy Hemmeter is a senior project manager for the Santa Clara Valley Water District in San Jose. She leads the district's participation in integrated regional water management (IRWM) efforts in the Pajaro River Watershed in the Central Coast Funding Area and in the San Francisco Bay Area. She also co-chairs the IRWM Roundtable of Regions, an ad hoc coalition of regions from across the state. She is also responsible for the district's local and regional water supply planning efforts, including developing and updating the district's water supply and infrastructure master plan, which guides investments in securing long-term water supply reliability, and participating in the Bay Area Regional Reliability program. Tracy has experience working on a variety of groundwater management, water quality, recycled water, and water supply planning projects and programs.

**Highstreet, Allan:** Allan Highstreet is a senior economist with CH2M. He specializes in resource economics and water resources planning. He has conducted financial and economic analyses for water supply, flood control, wastewater, and energy projects. He recently led the development of the investment strategy for the Central Valley Flood Protection Plan. He works with local agencies performing rate and fee studies along with the related Proposition 218 hearings, engineer's reports for bond financing, and capital prioritization studies. He has a bachelor of science degree in agricultural business management from California Polytechnic State University, San Luis Obispo, and a master of science degree in agricultural economics from the University of California, Davis.

**Hoshi, Junko:** Junko Hoshi, Ph.D., Climate Science and Renewable Energy Branch, California Department of Fish and Wildlife (CDFW). Junko's passions for nature goes back to her first memory gorging on wild raspberries in a secondary forest near her home in Tokyo. Urban sprawl was approaching fast and in two years, those forests have transformed into a forest of housing except for areas protected under the city's zoning codes. This experience eventually led to her career change after established as an ASIC design engineer/mathematician at Seagate Technology. For the past 10 years at CDFW, she has engaged on prioritizing ecosystem conservation activities in the state, national, and international level. Her engagement includes Bay Delta Conservation Plan, Desert Renewable Energy Conservation Plan, and as a lead and author, the California State Wildlife Action Plan 2015 Updates, and the companion plans (e.g. water companion plan). She has fostered partner engagement through California Biodiversity and Strategic Growth Councils, Landscape Conservation Cooperatives, and Association of Fish and Wildlife Agencies, among others. Junko is a master gardener and certified herbalist. If not in meetings or in front of computer, you would probably find her harvesting seeds, stems, and roots to eat and to propagate somewhere out there.

**Howard, Courtney:** Courtney Howard is a registered civil engineer serving as the Water Resources Division manager for the County of San Luis Obispo Public Works Department. She received a bachelor's degree in environmental engineering from California Polytechnic State University, San Luis Obispo, in 2000. In 2001, after operating and maintaining groundwater treatment systems in the Bay Area, she transitioned to regional water resource management for the county, developing local and county-wide water plans and groundwater management studies and serving as secretary for the county's Water

Resources Advisory Committee. She is currently a member of the State's Sustainable Groundwater Management Act Practitioner Advisory Panel.

**Khan, Abdul:** Abdul Khan, Ph.D., is a supervising engineer with DWR, where he manages the Water Budget and Analytics Section in the Integrated Data and Analysis Branch of the Division of Statewide Integrated Water Management. He has more than 30 years of experience in developing water management plans, conducting water supply planning studies, and evaluating flood control projects. Currently, he leads and directs the development of detailed water budgets for the 10 hydrologic regions of California. Abdul's work with DWR includes leading and directing Update 2013 Groundwater Content Enhancement, development of California Water Sustainability Indicators Framework, documentation of Climate Change Characterization and Analysis in California Water Resources Planning Studies, and serving as an advisor to NASA-Ames team developing groundwater storage change estimates based on GRACE satellite data.

**Massera, Paul:** Paul leads the Update 2018 process. His career emphasis is strategic, multi-disciplinary planning to guide State water policy and investment. This includes policy decision-support regarding engineering, economic, institutional, operational, environmental, and stakeholder collaboration aspects of water management. Paul also led development of Update 2013. Prior to joining the Water Plan Team, he was responsible for wetland water management operations and habitat restoration planning in the Suisun Marsh. His background also includes managing and conducting a variety of water supply and flood management evaluations throughout the state, planning groundwater recharge and conjunctive use projects, and investigating statewide surface storage and conveyance opportunities for the CALFED Bay Delta Program EIS/EIR. Paul led the formulation and evolution of the resource management strategies in the Update 2005. Other past assignments include policy advisor to DWR deputy director of Statewide and Delta Planning, CALFED Bay Delta Program, and State Division of Safety of Dams.

**McCready, Chris:** Christina McCready is a Principal Engineer with DWR, where she manages the Integrated Data and Analysis Branch of the Division of Statewide Integrated Water Management. She believes that a statewide integrated data platform will benefit the state's people by providing water management decision-makers with access to timely and coordinated datasets of documented quality. Chris' work with DWR has included civil engineering design, construction inspection, Oroville facilities relicensing, project communications, and, most recently, integrated regional water management. Chris is a licensed professional civil engineer and holds a bachelor of science degree in civil engineering from California Polytechnic State University, San Luis Obispo.

**Moeller, Lewis:** Lewis is currently chief of the Water Resources Evaluation Section, Division of Statewide Integrated Water Management, with DWR. In this role Lewis plans, organizes, coordinates, and directs a team of DWR staff in the development of the California Water Plan. Previously, Lewis worked for almost 20 years with the State Water Board in a variety of roles associated with both water rights and water quality. He served as an adjunct instructor in the science department at American River College for more than 12 years. Lewis received his bachelor of science degree in civil engineering from California State University, Sacramento, and is a California-licensed professional civil engineer.

**Moore, Steven:** Steven Moore was appointed to the State Water Resources Control Board by Governor Edmund G. Brown Jr. in 2012, reappointed in 2016, and elected as vice chair of the board in 2017. He previously served on the San Francisco Bay Regional Water Board from 2008 to 2012 under the Brown and Schwarzenegger administrations and held staff positions at that regional water board at various times between 1992 and 2006. Between 1989 and 2012, Steven worked more than 10 years as an engineer and consultant on a wide variety of water infrastructure projects, including sewer reconstruction, recycled water, stormwater, water supply, stream and wetland restoration, and environmental impact reports throughout California. Steven has experience both obtaining and issuing discharge permits, wetland permits, and clean water grants and loans. He led basin planning for the regional water board from 2002 to 2006. Steven holds a bachelor of science degree in biological sciences and a master of science degree in civil engineering, both from Stanford University. He is a registered civil engineer and a member of the American Society of Civil Engineers.

**Morrison, Carl:** Carl Morrison is president of Morrison & Associates, Inc., an environmental public and government relations firm founded after Carl retired from the U.S. Marine Corps where he served in various assignments including public affairs and as a judge advocate. He also serves as the administrator of the Bay Area Flood Protection Agencies Association. In that role he is working to improve the permitting process by coordinating with the U.S. Army Corps of Engineers and facilitating regular meetings with the San Francisco Bay Regional Water Quality Control Board and the Bay Delta Region of the California Department of Fish and Wildlife.

**Norris, Sherri:** Sherri is the executive director of the California Indian Environmental Alliance (CIEA) – a California Indian environmental health organization that provides California tribes, tribal members, and health care providers with trainings and decision-making tools to avoid toxins including mercury, PCBs, and more recently, cyanobacteria in fish. CIEA’s Tribal Self-Advocacy Program promotes increased water quality in partnership with California tribes for the advancement of safe subsistence food security. As part of this program, Sherri is the lead tribal engagement coordinator for the North Coast, Upper Feather River, Bay Area and CABY IRWMs. She has served in an advisory capacity in the creation of regional fish consumption advisories, educational outreach programs, total maximum daily loads, IRWM program development and has recently joined the Tribal Advisory Committee for Update 2018. Sherri is a member of the Sierra Fund’s Blue Ribbon Panel of mercury experts, a recipient of the Sierra Crest Award and the Mills College Brave Hearted Women Award. Sherri will work with the PMT and subcommittee under Task 1 to develop a tribal steering committee which will be tasked with developing a tribal outreach strategy.

**Nylen, Nell Green:** Nell Green Nylen is a research fellow with the Wheeler Institute for Water Law & Policy at the Center for Law, Energy & the Environment (CLEE), University of California, Berkeley School of Law. Nell earned a juris doctor degree from Berkeley Law, and both a Ph.D. and a bachelor of science degree in geological and environmental sciences from Stanford University, where her dissertation examined past climatic and environmental change along the Northern California coast. Prior to law school, Nell worked at the California Academy of Sciences, the Yale Peabody Museum of Natural History, Stanford University, and the U.S. Geological Survey. Before becoming a research fellow, she clerked for Justice Gregory J. Hobbs, Jr., on the Colorado Supreme Court, and interned with the California Attorney General’s Office and the Center for Biological Diversity.

**Orth, David:** David Orth, of Clovis, is principal of New Current Water and Land, LLC, which offers strategic planning, program implementation, and water resource development services. Orth is a member of the California Water Commission, appointed by Governor Brown in 2014. He served as general manager of the Kings River Conservation District from 2002 until August 2015, and as executive officer of Friant North Authority from August 2015 until December 2016. Orth has more than 35 years of financial and water resource management experience, serving previously as vice president of resource management at California Valley Land Company Inc., the director of finance and general manager positions at Westlands Water District, and various positions with the Fresno County Auditor-Controller/Treasurer.

**Osterling, David:** Eric C. Osterling is the water resources manager of the Kings River Conservation District. He serves as program manager/administrator for several collaborative planning efforts within the district including South Fork Kings Groundwater Sustainability Agency, North Fork Kings Groundwater Sustainability Agency, and Kings Basin Water Authority. He is a member of the Kings County Water Commission.

**Pinter, Nicholas:** Nicholas Pinter’s research focuses on river dynamics, flooding, floodplain management, and mitigation of flood risk and other natural hazards. He holds the Roy J. Shlemon Chair in Applied Geosciences, and he and his students study earth-surface processes applied to a range of problems, research that helps provide a scientific basis for sound public policy at local, national, and international levels.

**Ricker, John:** John Ricker is the water resources division director for the Santa Cruz County Health Services Agency-Environmental Health Division, and a director with the Santa Cruz County Resource Conservation District. He is also on the steering committee for the Santa Cruz Integrated Regional Water Management Program, and is a lead staff member for Sustainable Groundwater Management



Efforts for two basins in Santa Cruz County. John has worked for Santa Cruz County in watershed planning, water quality protection, and water resources management since 1974. He serves on various State and regional advisory groups dealing with beach water quality, groundwater management, stormwater management, onsite sewage disposal systems, water supply planning, and watershed protection. John holds a degree from the University of California, Santa Cruz, in environmental studies and biology.

**Rodriguez, Lynn:** Lynn Rodriguez has worked in the field of water resource management since 1981, focused primarily in Ventura and Santa Barbara counties. She has managed the Watersheds Coalition of Ventura County (WCVC) Integrated Regional Water Management (IRWM) Program since 2005. She authored the two IRWM plans for the region, and manages the ongoing stakeholder process. She also serves as co-chair of the statewide IRWM Roundtable of Regions and the LA-Ventura Funding Area Disadvantaged Community Involvement Task Force. She has served on numerous local, statewide and national committees addressing water management issues.

**Sherwood, Brad:** Brad Sherwood has worked in the California water industry for 15 years with both the Association of California Water Agencies and the Sonoma County Water Agency. As the community and government affairs manager at the water agency, Brad coordinates multi-faceted and innovative federal and State legislative programs. Brad represents the water agency at legislative hearings and serves as the media spokesperson. Working directly with the water agency's board of directors and general manager, Brad coordinates high-level relationships that represent special project and innovation initiatives. Brad is actively representing the water agency throughout the Bay Area through the San Francisco Bay Area Integrated Regional Water Management Program, Bay Area Water Agencies Coalition, North Bay Watershed Association, and North Bay Water Reuse Authority. Other regional collaborations Brad is involved in includes his upcoming position as chair of the ACWA Region One Board of Directors. Brad has a master's degree in political management from the George Washington University in Washington, D.C., and a bachelor's degree in government/journalism from California State University, Sacramento. Brad is a native, fifth generation Californian, born and raised in Elk Grove. He currently resides in Santa Rosa with his wife and two small children. Brad remains active in his community by coaching soccer, baseball, and volunteering at the local school.

**Silva, Fred:** Fred Silva is California Forward's senior fiscal policy advisor. Having spent 40 years in the development of public policy in State and local government, Fred is an expert in state and local finance, government operations, and the history of the state and local fiscal relationship in California. Prior to working with California Forward, Fred was a fiscal policy advisor to New California Network and previously senior advisor on governmental relations for the Public Policy Institute of California. From 1994 to 1996, Fred was executive secretary to the California Constitution Revision Commission, where he directed the staff work and wrote the final report of the commission. He was chief fiscal advisor to the president pro tempore of the California State Senate from 1981 to 1994. He also was chief consultant to the Senate Local Government Committee from 1975 to 1981. He has authored nearly two dozen publications and commentaries regarding government fiscal issues in California. Fred holds a bachelor's degree in public administration from San Jose State University.

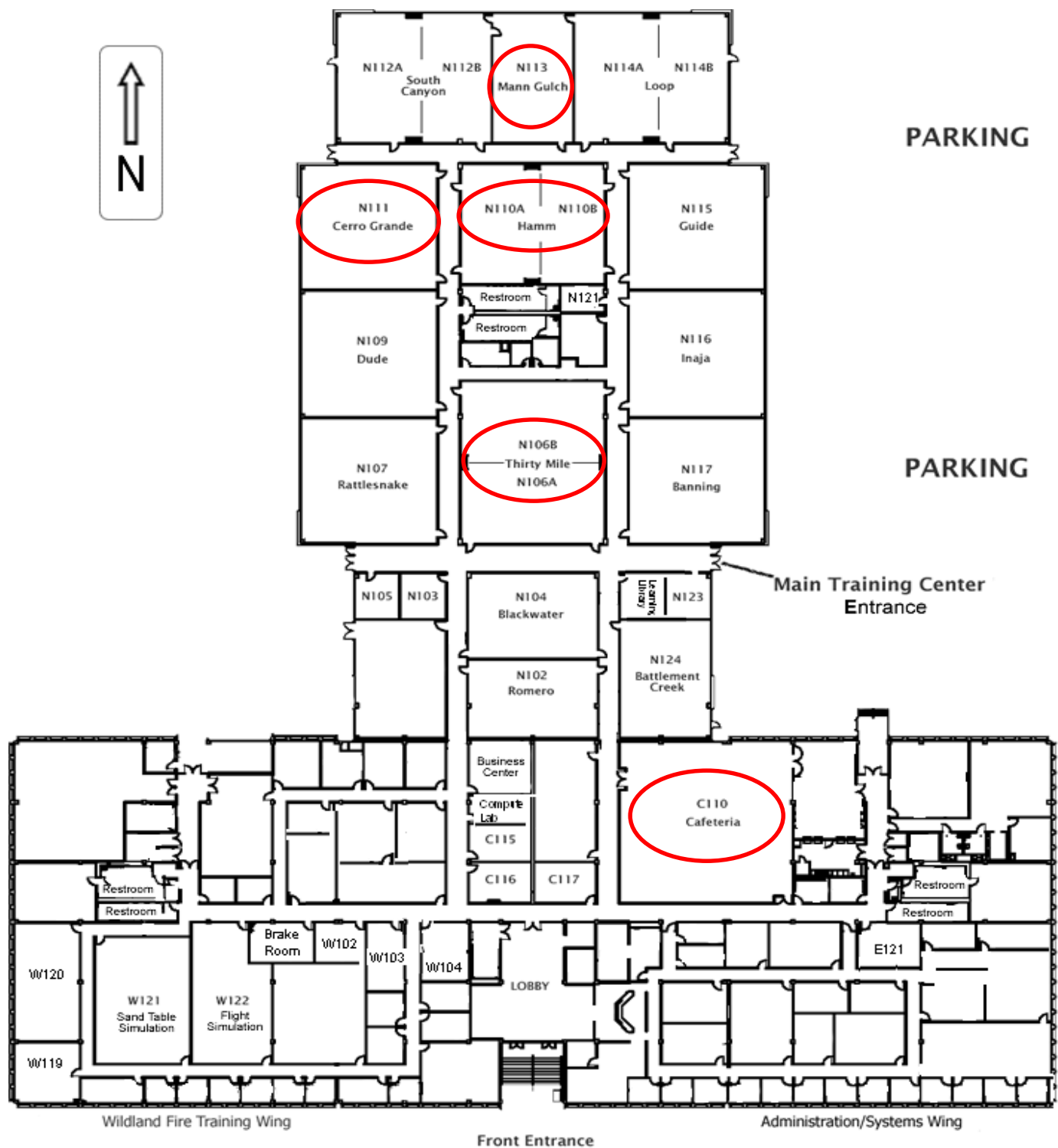
**Shipman, Paul:** Paul Shipman is a water resources engineer with DWR's Division of Statewide Integrated Water Management. Paul is currently leading development of an approach to multi-cropping for the Central Coast Water Budget Pilot Project. Paul has also participated in a range of technical and professional duties, including modeling, facilitating, analysis, and technical writing in support of several programs at DWR including the Water Budget Pilot Projects, the Sustainable Groundwater Management Program, the 2017 Central Valley Flood Protection Plan, and the IRWM Stakeholder Perspectives report. Paul graduated magna cum laude from California State University, Sacramento, with a bachelor of science degree in civil engineering. He is a licensed professional engineer in California. Paul has been with DWR since 2013.

**Stadler, Mark:** Mark Stadler, a principal water resources specialist at the San Diego County Water Authority, is the ringleader of the group that runs the San Diego Integrated Regional Water Management Program. Now in his tenth year managing the San Diego IRWM Program, Mark is most proud of how the

program has brought together diverse interests to meet the needs of the present, without compromising the ability of future generations to achieve their water supply, water quality, and environmental stewardship goals. The San Diego IRWM Program has produced two editions of the San Diego IRWM Plan and has been awarded \$95 million in State grant funds to support 65 high-priority water management projects. Mark also supervises the water authority's IRWM grant administration program.

**Young, Mike:** Mike Young holds a research chair in water and environmental policy at the University of Adelaide, was the founding executive director of its Environment Institute, is a fellow of the Academy of Social Sciences in Australia, and is a distinguished fellow of the Australian Agricultural and Resource Economics Society. A specialist in water policy reform, Mike has developed proposals for the transformation of water rights in the western U.S. and for the introduction of groundwater sharing systems in California. As a result of an Australian government endowment, each year Harvard University appoints one person to the Whitlam and Malcolm Fraser Chair in Australian Studies at Harvard University. Mike held this chair during the 2013–14 academic year. While in this position, he taught a course on transformational policy reform and, with Christine Esau, edited a book on the same subject. In the past, Mike has led teams that have developed frameworks for the introduction of a greenhouse gas emissions trading system in Australia, fishery management in NSW, biodiversity conservation on private land, and for rangeland management in NSW, SA and the NT. For three years, he worked on the integration of agricultural and environmental policies with OECD. He also played a key role in establishing Australia's National Land and Water Resources Audit. Mike is a current member of the Global Water Partnership's Technical Committee and is a recent member of the World Economic Forum's Global Agenda Council on Water Security. Mike is best known for his contribution to the development of natural resource and environmental policies. In recent times, his research has focused on the use and design of market-based instruments with attention to water.

**Woodling, John:** John Woodling is executive director of the Regional Water Authority, a coalition of more than two dozen water purveyors and associated agencies in the greater Sacramento region. He also heads the Sacramento Groundwater Authority, a joint powers agency managing the groundwater basin in Sacramento County north of the American River. Over 30 years in water resources management, John has provided innovative leadership at local, State, and federal levels. John previously served at DWR, managing groundwater programs and directing development of the State's Integrated Regional Water Management Program. John holds a bachelor's degree in geology from Whittier College and a master's degree in hydrogeology from the University of California, Davis. He is licensed as a professional geologist and a certified engineering geologist and hydrogeologist in California.



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## MEETING ROOM MAP